

CHECKLIST OF THE PSYLLIDS (HOMOPTERA: PSYLLOIDEA) OF MEXICO

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Abstract.—The checklist of Mexican Psylloidea includes 119 species in 39 genera and six families. Within the Psyllidae, there are 59 species in 27 genera; in the Triozidae, 51 species in seven genera; in the Carsidaridae, five species in two genera; in the Homotomidae, two species in one genus; and in each of the Phacopteronidae and the Calophyidae, there is one species. Fifty-four species of psyllids are known only from Mexico.

Key Words: Check list, jumping plant lice, Psylloidea, systematics

The psyllids, or Psylloidea, are a group of small sap-sucking insects that are superficially similar in appearance to miniature cicadas. The group is comprised of about 2000 species (Brown and Hodkinson 1988) that feed primarily on woody dicotyledenous plants. Until relatively recently, the literature in the New World treated the group as a single family with several subfamilies, but it is now generally agreed that the psyllids should be treated as a superfamily with six or seven families.

Research on the systematics of the psyllids of Mexico has been undertaken primarily by a small number of American and European entomologists including D. L. Crawford, L. D. Tuthill, D. Burckhardt, D. Hollis, I. D. Hodkinson, S. B. Muddiman, and R. G. Brown. The information for this paper was compiled primarily from the checklists of Hodkinson and White (1981) and Hodkinson (1988), and secondarily from the papers of Muddiman et al. (1992), Brown and Hodkinson (1988), Burckhardt and Lauterer (1989), and Hodkinson (1990, 1991a, b, c). The objective of this paper is

to compile the names of the psyllid species recorded from Mexico as a baseline of knowledge for studies of Mexican psyllid biodiversity. In many instances records have been published that are not an obvious source of Mexican data; this publication compiles these data so that they are readily available. The checklist provides the valid name for each taxon known to occur in Mexico and a primary reference for each record. An asterisk behind the name indicates that the species is known only from Mexico. Species are listed in alphabetical order within each genus, followed by the author of the species, and a number that corresponds with a reference in the terminal bibliography.

RESULTS

The described psyllid fauna of Mexico includes 119 species in 39 genera and six families. The family Psyllidae contains 59 species in 27 genera; the Triozidae, 51 species in seven genera; the Carsidaridae, five species in two genera; the Homotomidae, two species in one genus; and each of the

Calophyidae and Phacopteronidae contains one species.

Psyllidae

- Acizzia*
uncatoides (Ferris and Klyver), 3, 7
- Ameroscena*
mexicana Burkhardt and Lauterer, 2 *
- Aphalara*
simila Caldwell, 8
- Aphalaroida*
inermis Crawford, 8
lysilomae Hodkinson, 6
pithecolobia Crawford, 6
rauca Hodkinson, 6
- Arytaina*
virgina Caldwell, 8 *
- Blastopsylla*
occidentalis Taylor, 7
- Burkhardtia*
montana Brown and Hodkinson, 3a
- Cacopsylla*
americana (Crawford), 3
nana (Tuthill), 3
- Caradocia*
delongi Caldwell, 1
- Craspedolepta*
caudata (Crawford), 8
numerica (Caldwell), 8
nupera (Van Duzee), 8 *
veaziei (Patch), 8
- Euceropsylla*
minuticona (Crawford), 8
orizabensis (Crawford), 1
- Euphalerus*
fasciatus Laing, 8 *
gallicolus Ferris, 8 *
nidifex Schwarz, 8
- Freysuila*
dugesii Aleman, 8, 10 *
- Haplaphalara*
tuxtlaensis (Conconi), 1, 8 *
- Heteropsylla*
aurantiaca Muddiman, Hodkinson, and Hollis, 9
boquetensis Brown and Hodkinson, 9
clavata Muddiman, Hodkinson, and Hollis, 9 *
crawfordi Enderlein, 9
cubana Crawford, 9
didubiata Caldwell, 9 *
flexuosa Muddiman, Hodkinson, and Hollis, 9
forcipata Crawford, 9 *
fusca Crawford, 9
huasachae Caldwell, 9
intermedia Muddiman, Hodkinson, and Hollis, 9 *
mexicana (Crawford), 9 *
mimosae Crawford, 9
muricata Muddiman, Hodkinson, and Hollis, 9 *
nebulosa Muddiman, Hodkinson, and Hollis, 9 *
propinqua Muddiman, Hodkinson, and Hollis, 9
texana Crawford, 9
- Katacephala*
arcuata Crawford, 5, 8 *
cinctata Hodkinson, 5 *
grandiceps Crawford, 5
- Limbopsylla*
lagunculariae Brown and Hodkinson, 1
- Livia*
mexicana Caldwell, 8 *
- Mitrapsylla*
albalineata Crawford, 8
cubana Crawford, 1
deserata Caldwell, 8
- Neophyllura*
mexicana Jensen, 8 *
- Pachyopsylla*
tropicala Caldwell, 8 *
- Platycorypha*
amabilis Caldwell, 8 *
magnifrons (Crawford), 1
princeps Tuthill, 8
- Psylla*
minutiforma Caldwell, 8 * (should be placed in a different genus)
- Psyllopsis*
mexicana Caldwell, 8 *
- Rhinopsylla*
antennata (Crawford), 8
- Syncoptozus*
mexicanus Hodkinson, 4 *
- Tetragonocephala*
flava Crawford, 8

Trioziidae

Ceropsylla

- discrepans* Tuthill, 8 *
pulchra Tuthill, 8 *
sideroxyli Riley, 8

Kuwayama

- elongagena* (Caldwell), 8 *
hyalina Caldwell, 8 *
lateralis Caldwell, 8 *
medicaginis (Crawford), 8
mexicana Caldwell, 8 *
oaxacensis (Crawford), 8 *
striata Caldwell, 8 *

Leuronota

- inusitata* (Tuthill), 1
maculata (Crawford), 8
michoacana Ferris, 8 *

Paratrioza

- cockerelli* (Sulc), 8
dubia Tuthill, 8
plummeri Caldwell, 8 *

Trichohermes

- magna* (Laing), 1

Trioza

- albifrons* Crawford, 8
anceps Tuthill, 8 *
apartata Caldwell, 8 *
arizonae Aulman, 8
bella Tuthill, 8 *
bifurca Tuthill, 8 *
collaris Crawford, 8
dampfi Tuthill, 8 *
diospyri (Ashmead), 8
epiphitatae Caldwell, 8 *
grandipennis Tuthill, 8 *
hidalgoensis Caldwell, 8 *
incidata Tuthill, 8 *
inusitata Tuthill, 8
longigenae Tuthill, 1
magnoliae (Ashmead), 8
maritima Tuthill, 8 *
mexicana Crawford, 8
minor Tuthill, 1
nigriconus Tuthill, 1
nigriscutum Tuthill, 8 *
proximata Crawford, 8
psyllihabitatus Tuthill, 1
rhinosa Caldwell, 8 *

rubra Tuthill, 8

rugosata Caldwell, 8 *

russellae Tuthill, 1

stroma Caldwell, 8 *

thoracica Caldwell, 8 *

zogoda Caldwell, 8 *

Triozoidea

formiciformis (Caldwell), 1, 8 *

johnsonii Crawford, 8

limbata (Enderlein), 1

prima (Tuthill), 8

Calophyidae

Calophya

dicksoni Jensen, 8 *

Carsidaridae

Mastigimas

ernestii (Schwarz), 7, 10

schwarzi (Tuthill), 8

Paracarsidara

dugesii (Loew), 8

gigantea (Crawford), 8

mexicana (Crawford), 8 *

Homotomidae

Synozoa

floccosa Ferris, 8 *

pulchra Laing, 8

Phacopteronidae

Epicarsa

corniculata Crawford, 1

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